NEWZEN CONSULTANT BANGALORE

NC/QC/DD-W13/2019-20/DW-W1 Date: 08-04-2020

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**73.20**	60-80
11.20	**51.85**	40-60
4.75	**36.70**	25-40
2.36	**24.35**	15-30
0.600	**18.50**	8-22
0.075	**3.60**	0-5

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANT BANGALORE

NC/QC/DD-W13/2019-20/DW-C1 **Date: 09-04-2020**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.82 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.64N/Sq mm**	Shall not be less than 27 N/Sqmm

For Newzen Consultants Bangalor

Proprietor

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NC/QC/DD-W13/2019-20/DW-PCC1 Date: 09-04-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.25	0 -20	30- 70
10mm	29.50	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.65	60-95	75-100	85-100	
01.18	74.20	30-70	55-90	75-100	
600.mic	51.90	15-34	35-59	60-79	
300.mic	23.35	5-20	8-30	12-40	
150.mic	7.50	0-10	0-10	0-10	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/DD-W13/2019-20/DW-C2 Date: 13-04-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.89 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**27.35 N/Sq mm**	Shall not be less than 27 N/Sqmm

For Newzen Consultants Bangalore

Proprietor

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NC/QC/DD-W13/2019-20/DW-FA1 **Date: 13-04-2020**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.50**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.25**	60-95	75-100	85-100	
01.18	**74.90**	30-70	55-90	75-100	
600. mic	**51.80**	15.34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**6.95**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.86%**	-----
2	Silt Content	----	**0.63 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

For Newzen Consultants Bangalore
Proprietor

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NC/QC/DD-W13/2019-20/DW-CA1 **Date: 13-04-2020**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.15**	85-100	90 - 100
10 mm	**45.30**	0 - 20	25 - 55
4.75 mm	**3.85**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**26.68 %**	Not to exceed 25 %
2.	Crushing value	**27.36%**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

For Newzen Consultants Bangalore

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NC/QC/DD-W13/2019-20/DW-CB1 **Date: 22-04-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-20	22-04-20	07	22500	530	23.56	**23.26**
	002	‘’	“	‘’	“	515	22.89	
	003	‘’	“	‘’	“	525	23.33	

For Newzen Consultants Bangalore

Proprietor

Page No. 1/1,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DD-W13/2019-20/DW-CB1a **Date: 13-05-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drinking Water Facilities in Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-20	13-05-20	28	22500	730	32.44	**32.37**
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

For Newzen Consultants Bangalore
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